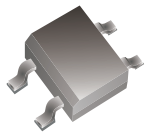
Low V_F SMD Schottky Bridge Rectifiers

CDBHM220L-G Thru. CDBHM2100L-G

Reverse Voltage: 20 to 100 Volts
Forward Current: 2.0 Amp
RoHS Device



Features

-For surface mounted applications..

-Metal-Semiconductor junction with guarding.

-Epitaxial construction.

- Very low forward Voltage drop .

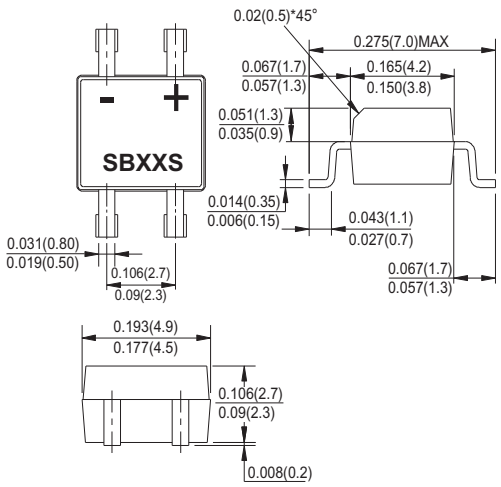
-High current capability

-Plastic material has UL flammability classification 94V-0

-For use in low voltage,high frequency inverters, free wheeling , and polarity protection applications.

-Pb free product.

MBS-2



Dimensions in inches and (millimeters)

xxx = Product type marking code

Mechanical data

-Case: molded plastic.

-Polarity: Indicated by cathode band.

-Weight:0.125 gram(approx.).

Maximum Rating And Electrical Characteristics

Rating at T_A=25°C, unless otherwise noted.
Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

Parameter	Symbol	CDBHM 220L-G	CDBHM 230L-G	CDBHM 240L-G	CDBHM 250L-G	CDBHM 260L-G	CDBHM 280L-G	CDBHM 290L-G	CDBHM 2100L-G	Unit
	Marking	SB22S	SB23S	SB24S	SB25S	SB26S	SB28S	SB29S	SB210S	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	90	100	V
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	56	63	70	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	80	90	100	V
Maximum Average Forward Rectified Current @T_L=100 °C	$I_{(AV)}$	2.0								A
Peak Forward Surge Current, 8.3mS single half sine-wave, superimposed on rated load (JEDEC Method)	I_{FSM}	50								A
Maximum Forward Voltage at 2.0A DC	V_F	0.55			0.70		0.85			V
Maximum DC Reverse Current @T_J=25 °C at Rated DC Blocking Voltage @T_J=100 °C	I_R	1.0 20								mA
Typical Junction Capacitance (Note 1)	C_J	125								pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	20								°C/W
Operating Temperature Range	T_J	-55 to +125								°C
Storage Temperature Range	T_{STG}	-55 to +150								°C

Notes: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
2. Thermal resistance junction to lead.

RATING AND CHARACTERISTIC CURVES (CDBHM220L-G Thru. CDBHM2100L-G)

FIG. 1 - FORWARD CURRENT DERATING CURVE

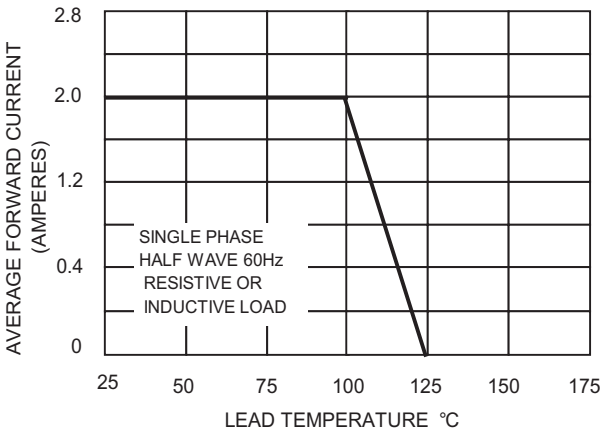


FIG. 2 –MAXIMUM NON-REPETITIVE SURGE CURRENT

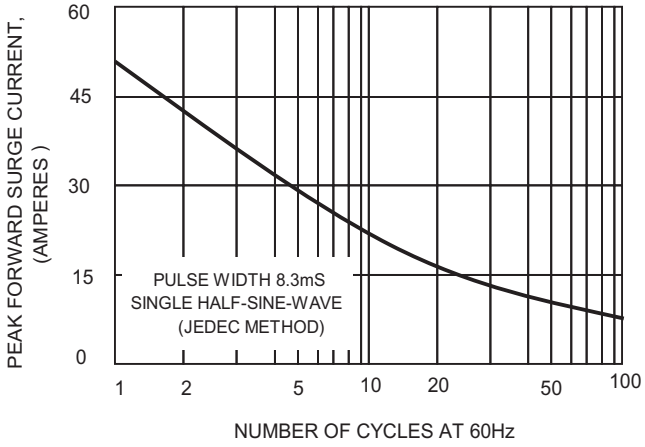


FIG.3-TYPICAL FORWARD CHARACTERISTICS

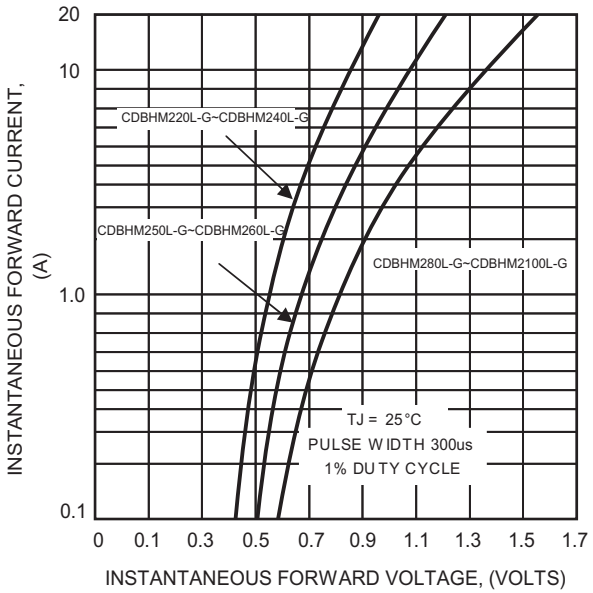


FIG.4-TYPICAL JUNCTION CAPACITANCE

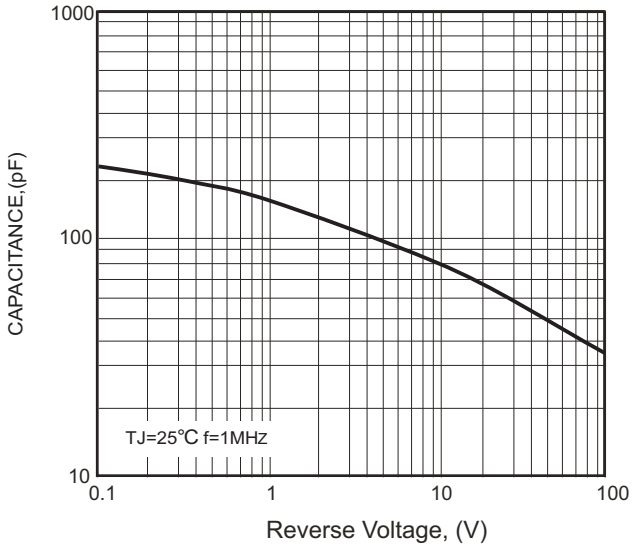
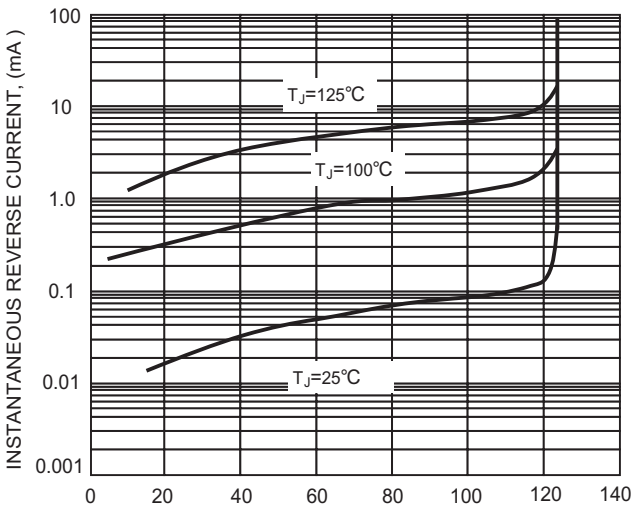
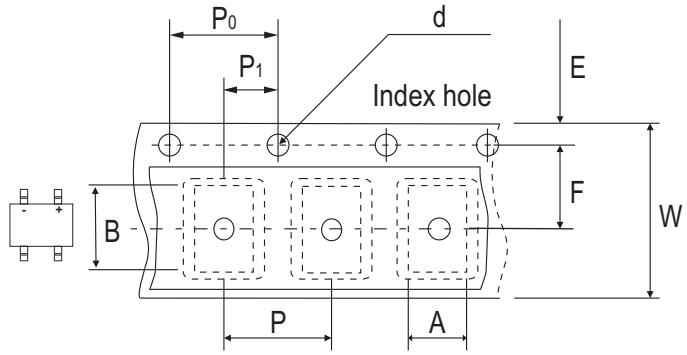
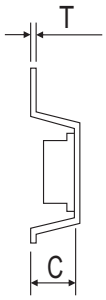


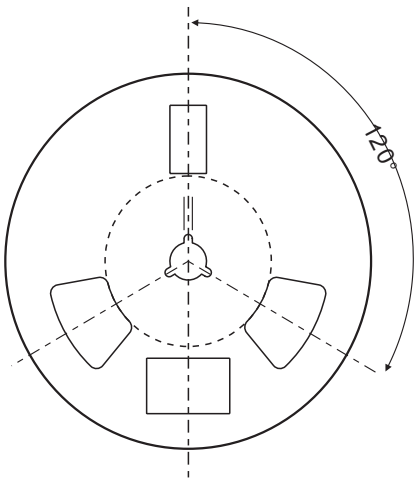
FIG.5-TYPICAL REVERSE CHARACTERISTICS

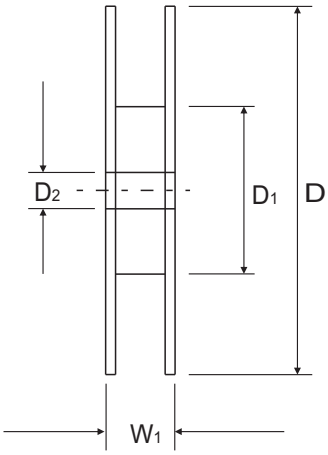


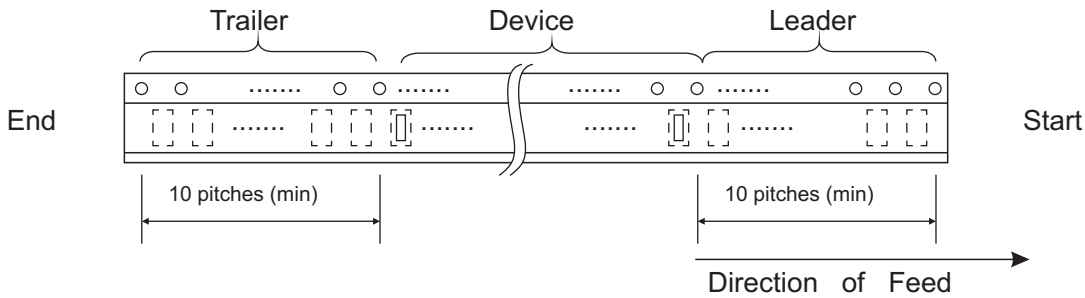
Reel Taping Specification









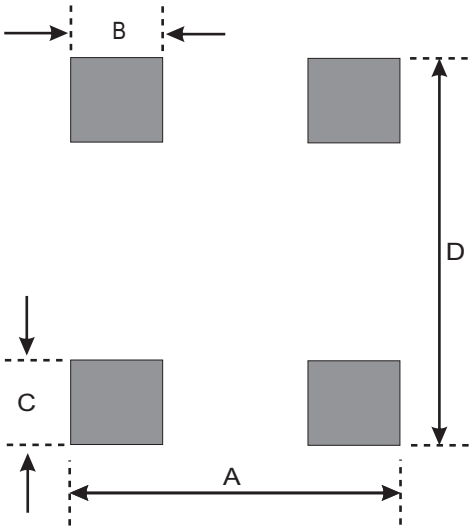


	SYMBOL	A	B	C	d	D	D1	D2
MBS-2	(mm)	4.90 ± 0.01	7.24 ± 0.10	3.33 ± 0.10	1.55 ± 0.10	330.0	50.0 MIN.	13.0 ± 0.20
	(inch)	0.93 ± 0.004	0.285 ± 0.004	0.131 ± 0.004	0.0610 ± 0.004	13.00	1.969 MIN.	0.512 ± 0.008

	SYMBOL	E	F	P	P0	P1	W	W1
MBS-2	(mm)	1.75 ± 0.10	5.50 ± 0.05	8.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.05	12.00 ± 0.30	12.0~14.40
	(inch)	0.069 ± 0.004	0.217 ± 0.002	0.315 ± 0.004	0.157 ± 0.004	0.079 ± 0.002	0.472 ± 0.012	0.472~0.657

Suggested PAD Layout

SIZE	MBS-2	
	(mm)	(inch)
A	2.55 REF	0.100 REF
B	0.82 MIN	0.032MIN
C	0.92 MIN	0.036 MIN
D	7.00 MAX	0.272MAX



Standard Packaging

Case Type	REEL PACK	
	REEL (pcs)	Reel Size (inch)
MBS-2	3,000	13